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ABSTRACT

A Terrestrial Satellite Interworking Unit (TSIU) is provided for achieving seamless integration of a terrestrial ATM network with a satellite ATM network. In particular, the TSIU in incorporated within a for interconnecting COTS ATM communicably linked to the terrestrial ATM network and a satellite modem communicably linked to the satellite The TSIU provides traffic and resource ATM network. management functions (such as DAMA, congestion control, and jitter removal), signaling interworking functions, and satellite domain-specific functions (such as data encryption/decryption, control channel ciphering, and gateway authentication).

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